



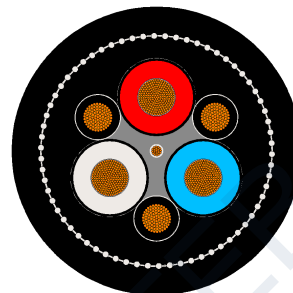
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE 241 SEMICONDUCTIVE SCREENED CABLE

1.1/1.1 kV to 11/11 kV general-use cable to AS/NZS 1802



APPLICATION

Semiconductive elastomer screened power cores, with three earth cores and one extensible pilot. 1.1/1.1 kV to 11/11 kV general purpose cable used for continuous miners, feeder cables to pumps, monorails supplying DCBs and longwalls. Typically a more flexible cable using a semiconductive screen instead of a metal screen.

CONSTRUCTION

Parameter	Value
Core	Tinned copper, three phase cores, three earth cores plus central pilot
Flexibility	Flexible
Conductor separator	Polyester where necessary for 1.1/1.1 kV; semi-conductive screen for 3.3 kV and above
Insulation	EPR compound, R-EP-90, with durably printed core numbers for phase identification
Screen	Semi-conductive elastomer screen
Pilot	Single central pilot core
Earth	Three semi-conductive elastomer covered flexible earth cores located in the interstices
Sheath	Open weave reinforcement under heavy duty HD-85-PCP elastomer sheath

CABLE CHARACTERISTICS

Parameter	Value
Standard	AS/NZS 1802
Voltage range	1.1/1.1 kV to 11/11 kV
Maximum continuous operating temperature	+90 deg C
Minimum installation temperature	-25 deg C
Installation conditions	In free air, in duct and for mobile equipment machines
Oil / water performance	Excellent immersion performance and very good flexibility
Flame performance	C1

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

TYPE 241.1 - 1.1/1.1 kV											
Part	Area mm2	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Earth mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
6	6	3.5	1.5	4.32	0.139	7.49	0.259	1	3.8	29.9	130
10	10	4.6	1.5	2.58	0.127	4.47	0.314	1.5	3.8	32.0	155
16	16	6.2	1.6	1.58	0.116	2.74	0.379	3	3.9	35.9	200
25	25	7.2	1.6	0.951	0.110	1.66	0.432	4.5	4.2	38.9	255
35	35	8.4	1.6	0.698	0.106	1.22	0.493	6	4.4	42.0	310
50	50	9.7	1.7	0.523	0.102	0.923	0.526	8	4.9	46.3	380
70	70	12.0	1.8	0.346	0.0965	0.622	0.599	12.5	5.3	52.4	510
95	95	13.3	2.0	0.271	0.0942	0.497	0.591	12.5	5.8	57.1	605
120	120	15.3	2.1	0.210	0.0912	0.397	0.640	13.75	6.3	62.9	745
150	150	17.2	2.3	0.166	0.0896	0.327	0.652	17	6.7	68.6	910
185	185	18.8	2.5	0.137	0.0885	0.283	0.657	22	7.3	74.4	1085
240	240	21.7	2.8	0.107	0.0868	0.239	0.672	27	8.0	83.2	1370
300	300	24.3	3.0	0.0851	0.0848	0.208	0.719	35.2	8.7	90.8	1670

TYPE 241.3 - 3.3/3.3 kV											
Part	Area mm2	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Earth mm2	Sheath mm	Cable Dia. mm	Mass kg/100m
16	16	6.2	3.0	1.58	0.129	2.75	0.255	3	5.0	45.0	285
25	25	7.2	3.0	0.951	0.123	1.66	0.280	4.5	5.3	48.2	350
35	35	8.4	3.0	0.698	0.117	1.23	0.311	6	5.6	51.2	410
50	50	9.7	3.0	0.523	0.112	0.926	0.347	8	6.0	55.0	485
70	70	12.0	3.0	0.346	0.105	0.626	0.408	12.5	6.4	60.6	620
95	95	13.3	3.0	0.271	0.101	0.501	0.439	16	6.8	64.2	715
120	120	15.3	3.0	0.210	0.0965	0.400	0.492	20	7.2	69.3	855
150	150	17.2	3.0	0.166	0.0934	0.330	0.541	27	7.6	74.2	1030
185	185	18.8	3.0	0.137	0.0911	0.285	0.584	35.2	8.0	78.5	1190
240	240	21.7	3.0	0.107	0.0878	0.240	0.659	39.5	8.6	85.8	1450
300	300	24.3	3.0	0.0851	0.0854	0.209	0.727	50	9.1	92.3	1735

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

TYPE 241.6 - 6.6/6.6 kV											
Part	Area mm ²	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Earth mm ²	Sheath mm	Cable Dia. mm	Mass kg/100m
16	16	6.2	5.0	1.58	0.141	2.75	0.181	3	6.1	55.9	410
25	25	7.2	5.0	0.951	0.135	1.66	0.193	4.5	6.4	59.4	495
35	35	8.4	5.0	0.698	0.129	1.23	0.212	6	6.7	62.5	560
50	50	9.7	5.0	0.523	0.123	0.931	0.234	8	7.1	66.2	645
70	70	12.0	5.0	0.346	0.115	0.632	0.271	12.5	7.4	71.7	790
95	95	13.3	5.0	0.271	0.111	0.507	0.292	16	7.9	75.5	905
120	120	15.3	5.0	0.210	0.106	0.407	0.325	20	8.3	80.6	1065
150	150	17.2	5.0	0.166	0.102	0.337	0.354	27	8.6	85.1	1235
185	185	18.8	5.0	0.137	0.0997	0.293	0.381	35.2	9.0	89.5	1410
240	240	21.7	5.0	0.106	0.0957	0.247	0.426	39.5	9.6	96.8	1685
300	300	24.3	5.0	0.0847	0.0927	0.217	0.467	50	10.2	104	1995

TYPE 241.11 - 11/11 kV											
Part	Area mm ²	Cond. Dia. mm	Insul. mm	AC Res. oh/km	React. oh/km	Volt Drop mV/A.m	Cap. uF/km	Earth mm ²	Sheath mm	Cable Dia. mm	Mass kg/100m
25	25	7.2	7.6	0.951	0.148	1.67	0.150	4.5	7.8	73.8	720
35	35	8.4	7.6	0.698	0.141	1.23	0.163	6	8.1	76.8	800
50	50	9.7	7.6	0.523	0.135	0.936	0.178	8	8.5	80.5	895
70	70	12.0	7.6	0.346	0.126	0.638	0.204	12.5	8.9	86.1	1060
95	95	13.3	7.6	0.271	0.122	0.515	0.219	16	9.3	89.7	1180
120	120	15.3	7.6	0.210	0.116	0.416	0.241	20	9.7	94.8	1350
150	150	17.2	7.6	0.165	0.112	0.345	0.261	27	10.0	99.3	1540
185	185	18.8	7.6	0.136	0.109	0.302	0.279	32	10.4	104	1720
240	240	21.7	7.6	0.106	0.104	0.257	0.309	39.5	11.0	111	2035

CERTIFICATIONS



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